

INTERNATIONAL SEARCH REPORT

In tional Application No
PCT/US2004/031417

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N9/88 C12P7/42 C12N15/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, PAJ, EMBASE, Sequence Search, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EMBL 'Online! EBI; 1 October 2002 (2002-10-01), "4-hydroxy-2-oxoglutarate aldolase/2-dehydro-3-deoxyphosphogluconate aldolase (dgoA)" XP002317419 retrieved from EMBL accession no. Q8PLM9 see sequence -& DA SILVA A C R ET AL: "Comparison of the genomes of two Xanthomonas pathogens with differing host specificities" NATURE (LONDON), vol. 417, no. 6887, 23 May 2002 (2002-05-23), pages 459-463, XP002317414 ISSN: 0028-0836</p> <p style="text-align: center;">----- -/--</p>	<p>1,2, 4-10, 12-15</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

11 February 2005

Date of mailing of the international search report

09/03/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EMBL 'Online! EBI; 1 October 2002 (2002-10-01), "4-HYDROXY-2-OXOGLUTERATE ALDOLASE/2-DEYDRO-3-DEOXYPHOSPHOGLUCONATE ALDOLASE" XP002317420 retrieved from EMBL accession no. Q8P9V0 see sequence</p>	1,2, 4-10, 12-15
X	<p>DATABASE EMBL 'Online! EBI; 1 March 2003 (2003-03-01), "2-dehydro-3-deoxyphosphogalactonate aldolase, putative" XP002317421 retrieved from EMBL accession no. Q8FVA7 see sequence -& PAULSEN IAN T ET AL: "The Brucella suis genome reveals fundamental similarities between animal and plant pathogens and symbionts" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 99, no. 20, 1 October 2002 (2002-10-01), pages 13148-13153, XP002317415 ISSN: 0027-8424</p>	1,2, 4-10, 12-15
X	<p>DATABASE EMBL 'Online! EBI; 1 March 2002 (2002-03-01), "Putative 2-dehydro-3deoxyphosphogalactonate aldolase protein (EC 4.1.2.21)" XP002317422 retrieved from EMBL accession no. Q8XVS7 see sequence -& SALANOUBAT M ET AL: "Genome sequence of the plant pathogen Ralstonia solanacearum" NATURE (LONDON), vol. 415, no. 6871, 31 January 2002 (2002-01-31), pages 497-502, XP002317416 ISSN: 0028-0836</p>	1,2, 4-10, 12-15
P,X	<p>RAN NINGQING ET AL: "Creation of a shikimate pathway variant." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 9 JUN 2004, vol. 126, no. 22, 9 June 2004 (2004-06-09), pages 6856-6857, XP002317417 ISSN: 0002-7863 the whole document</p>	1-45
A	<p>US 6 472 169 B1 (FROST JOHN W ET AL) 29 October 2002 (2002-10-29)</p>	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KNAGGS A R: "The biosynthesis of shikimate metabolites." NATURAL PRODUCT REPORTS. JUN 2001, vol. 18, no. 3, June 2001 (2001-06), pages 334-355, XP002317418 ISSN: 0265-0568</p> <p>-----</p>	

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6472169	B1	29-10-2002	US 6613552 B1 02-09-2003
		AU 9103001 A 15-04-2002	
		WO 0229078 A2 11-04-2002	
		AU 1342700 A 18-08-2000	
		EP 1151126 A1 07-11-2001	
		JP 2002535008 T 22-10-2002	
		WO 0044923 A1 03-08-2000	
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national application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☒ filed together with the international application in computer readable form
 - ☐ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments: